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**(54) METHOD AND EQUIPMENT FOR SUPPLYING  
PERFUME**

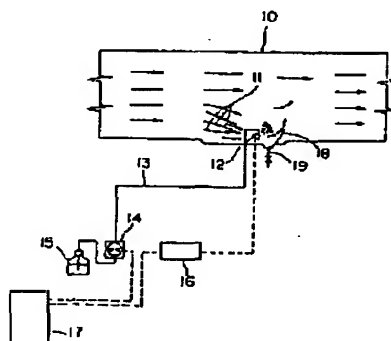
**(57) Abstract:**

**PURPOSE:** To vaporize a liquid perfume efficiently, to mix the perfume thereof with conditioned air and thereby to enable supply of it into a prescribed space by mixing the liquid perfume turned into a mist directly with the conditioned air in an air-conditioning duct.

**CONSTITUTION:** An ultrasonic oscillator 12 and a perfume injection nozzle in the fore end part of a perfume supply pipe 13 are disposed in an area of an air-conditioning duct 10 wherein an air stream is guided by a straightening plate 11. The air stream in the air-conditioning duct 10 is guided onto the plane of ultrasonic oscillation of the ultrasonic oscillator 12 by the straightening plate 11. When a micropump 14 is operated and thereby a liquid perfume in a perfume tank 15 is jetted from the perfume injection nozzle in the fore end part of the perfume supply pipe 13 onto the plane of ultrasonic oscillation of the ultrasonic oscillator 12, therefore, the liquid perfume is turned into a mist and the liquid perfume mist is scattered and vaporized. A mist particle of a large size which is not vaporized sufficiently is caught by a collision plate 18 and discharged through a drain pipe 19. Besides, the collision plate 18 disturbs the stream on the downstream

side in the air-conditioning duct 10 and thus facilitates diffusion of the vaporized liquid perfume in the air-conditioning duct 10.

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## Bibliographic data

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Abstract	AB	PURPOSE: To vaporize a liquid perfume efficiently, to mix the perfume thereof with conditioned air and thereby to enable supply of it into a prescribed space by mixing the liquid perfume turned into a mist directly with the conditioned air in an air-conditioning duct. CONSTITUTION: An ultrasonic oscillator 12 and a perfume injection nozzle in the fore end part of a perfume supply pipe 13 are disposed in an area of an air-conditioning duct 10 wherein an air stream is guided by a straightening plate 11. The air stream in the air-conditioning duct 10 is guided onto the plane of ultrasonic oscillation of the ultrasonic oscillator 12 by the straightening plate 11. When a micropump 14 is operated and thereby a liquid perfume in a perfume tank 15 is drawn from the perfume injection nozzle in the fore end part of the perfume supply pipe 13 onto the plane of ultrasonic oscillation of the ultrasonic oscillator 12, therefore, liquid perfume is turned into a mist and the liquid perfume mist is scattered and vaporized. A mist particle of a large size which is not vaporized sufficiently is captured by a collision plate 18 and discharged through a drain pipe 19. Besides, the collision plate 18 disturbs the stream on the downstream side in the air-conditioning duct and thus facilitates diffusion of the vaporized liquid perfume in the air-conditioning duct 10. COPYRIGHT: (C)1990,JPO&Japio

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